

ABSTRACT OF THE DISCLOSURE

A test device of an A/D converter includes a compare decision circuit for comparing the output code of an A/D converter with a specified digital code representing a bit transition point, and for generating a digital signal corresponding to the difference between the two codes compared. During a period where the output code of the A/D converter is greater than the digital code representing the bit transition point, a switching circuit connects to an integrator circuit one of a positive current source and negative current source, which reduces the integral output, and otherwise the other of the two current sources that increases the integral output. An adder-subtractor circuit superimposes a specified triangular or sawtooth wave signal on the integral output of the integrator circuit, and supplies it to the converter.

The test device can automatically measure the bit transition point of the specified digital code at high speed.